

SAFETY DATA SHEET

Creation date: March 02, 2016
Revision date: June 06, 2017

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product : EasyPrep DNA Extraction Reagent
Code No. : 391-4310

Company Name : Nippon Gene Co., Ltd.
Address : 1-8-7 Toiya-machi, Toyama city, Toyama-ken, Japan
Phone Number : 076-451-6548
Fax Number : 076-451-6547

2. HAZARDS IDENTIFICATION

2-Butoxyethanol:
GHS Classification: Skin corrosion/irritation : Category 3
Reproductive Toxicity : Category 2
Specific Target Organ Systemic Toxicity/Single Exposure : Category 2
(CNS, blood, kidneys, liver)

Hazard Symbols:



WARNING

Hazards Identification: H316 Causes mild skin irritation
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs (CNS, blood, kidneys, liver)

Precautions :

[Prevention] P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe dust/fume/gas/mist/vapours/spray
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P281 Use personal protective equipment as required

[Response] P308+P313 If exposed or concerned: Get medical advice/attention
P309+P311 If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

[Storage] P405 Store locked up

[Disposal] P501 Dispose of contents and container in accordance with regulation

3. COMPOSITION / INFORMATION ON INGREDIENTS

Single Product/Mixture Classification: Mixture
Common/Chemical Name: 2-Butoxyethanol trade secret
Content: 160 mM (1.9%) Non-disclosure
Chemical Formula: C₆H₁₄O₂ Non-disclosure
CAS Number: 111-76-2 Non-disclosure
Hazardous Ingredient: 2-Butoxyethanol None

4. FIRST AID MEASURES

Necessary measures against various exposure types

Inhalation : Remove from exposure area to fresh air immediately. Get medical attention if adverse health effects persist or are severe.

Skin Contact : Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains. Get medical attention if adverse health effects persist or are severe.

- Eye Contact : Wash eyes immediately with large amounts of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.
- Ingestion : Wash mouth out with water. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

: Not available

5. FIRE FIGHTING MEASURES

- Extinguishing Media** : Powder, chemical foam, carbon dioxide, dry sand, water spray
- Banned Extinguishing Media** : None
- Specific Hazards** : In case of fire, toxic and corrosive vapors or fumes may be formed. Wear suitable protection to avoid inhalation.
- Special Fire Fighting Procedures** : Use media suitable to extinguish source of fire. Extinguish the fire from the windward side of the fire. Perform the proper operation to prevent dispersion of material that influences environmental conditions.
- Protective Measures in Fire** : The fire fighting should be done from the windward side to avoid inhalation of toxic gas, with suitable respiratory protective device, if necessary

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Personal Protection, and Emergency Equipment** : Wear appropriate personal protective equipment. Avoid inhalation and skin contact. Do not touch containers or spillage without proper protection. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- Environmental Precautions** : Prevent further leakage or spillage. Do not contaminate any lakes, streams, ponds, groundwater or soil. Prevent dispersion of materials.
- Methods and materials for containment and cleaning up** : Collect all the spill and place in properly labeled containers for later disposal. Clean the spill area completely.

7. HANDLING AND STORAGE

Handling

- Technical Measures : Wear proper equipment and take measures according to [8. Exposure control / Personal protection].
- Local exhaust ventilation system/general ventilation : Ventilate according to [8. Exposure control / Personal protection].
- Precaution : Avoid contact and inhalation. Handle in a specially designated area where no eating or drinking is allowed. Wash hands and face and rinse mouth thoroughly after handling. Avoid inhalation of mist, vapor and spray of material. Avoid contact with eyes, skin and clothing. Obtain a package insert before use. Read all the cautions for safety in the package insert before use.
- Incompatible Contacts : See 10. STABILITY AND REACTIVITY

Storage

- Storage Condition : Store at room temperature and out of direct sunlight.
- Technical Measures : None
- Incompatible Materials for Storage : See 10. STABILITY AND REACTIVITY
- Material of Container : Polyethylene, polypropylene

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Biological limit values	: ACGIH	: Not established
	: JSOH	: Not established
Engineering Measures	: Provide local exhaust ventilation if generating vapor, dust, or mist.	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
Personal protective equipment		
Respiratory protection	: Protective mask	
Hand protection	: Suitable impervious gloves.	
Eye protection	: Suitable safety glasses (goggles)	
Skin protection	: Protective clothing (long sleeved)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, Colour etc)	: Colorless liquid
Odor	: faint aromatic odor
pH	: slightly alkaline
Melting point / freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: Not available
Upper/lower flammability or explosion limits	: Not available
Vapor pressure	: Not available
Relative density	: Not available
Solubility	: Miscible in water
Partition coefficient (n-octanol/water)	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available

10. STABILITY AND REACTIVITY

Reactivity	: Not available
Chemical stability	: Stable under proper storage conditions and handling
Possibility of hazardous reactions	: Not available
Conditions to avoid	: Light, heat
Incompatibilities	: Not available
Hazardous decomposition products	: Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	: Oral [rat] The content is 1.9% LD ₅₀ > 5000mg/kg Not classified
	: Dermal [rabbit] The content is 1.9% LD ₅₀ > 5000mg/kg Not classified
	: Inhalation[rat] The content is 1.9% LC ₅₀ > 20000mg/kg Not classified
Skin Corrosion / Irritation	: rabbit test (similar to OECD TG404) irritating Category 2 The content is 1.9% Category 3
Eye Damage / Irritation	: In rabbit Draize tests (OECD TG405 (GLP)), Category 2A The content is 1.9% Not classified
Respiratory or Skin Sensitization	
Respiratory Sensitization	: Not available
Skin Sensitization	: guinea pig Maximization test : negative Not classified
Germ Cell Mutagenicity	: In vivo somatic cell mutagenicity test : negative Not classified
Carcinogenicity	: IARC : Group 3 , ACGIH : A3 , EPA : C (NITE/2009) Not classified

Toxic to reproduction	: Based on the NITE GHS classification results.	Category 2
Specific Target Organ Systemic Toxicity/Single Exposure	: Based on the NITE GHS classification results. Category 1 (CNS, blood, kidneys, liver) The content is 1.9% Category 2 (CNS, blood, kidneys, liver) Category 3 (respiratory tract irritation) The content is 1.9% Not classified	
Specific Target Organ Systemic Toxicity/Repeated Exposure	: Based on the NITE GHS classification results.	Category 2 (blood)
	The content is 1.9% Not classified	
Aspiration Hazard	: Not available	

12. ECOLOGICAL INFORMATION

Sodium dodecyl sulfate:		
Toxicity	: Fish (<i>Sheepshead minnow</i>) LC ₅₀ =116mg/L /96H Hazardous to the aquatic environment -AcuteHazard	Not classified
Persistence and Degradability	: It is rapidly degradable (BOD degradation rate: 96%)	
Bioaccumulative potential	: Low bioaccumulative potential is estimated (log Kow = 0.83). Hazardous to the aquatic environment -Chronic Hazard	Not classified
Mobility in soil	: Not available	
Hazard to the ozone layer	: Not available	
Other hazard information	: Not available	

13. DISPOSAL CONSIDERATIONS

Hazardous Waste	: Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). Contact a licensed professional waste disposal service to dispose of this product
Contaminated Container and Packaging	: Retaining product residue must be completely removed before dispose.

14. TRANSPORT INFORMATION

Basic classification information for the transporting/shipment	
UN Number	: 2810
Chemical Name	: TOXIC LIQUID, ORGANIC, N.O.S (2-Butoxyethanol)
Hazard Category	: Category6.1
Package Type	: PGIII
Marine Pollutant	: Not applicable
International regulations	
Land	: Controlled under ADR/RID's regulations.
Sea	: Controlled under IMDG's regulations.
Air	: Controlled under IATA's regulations.
Additional Information	: Keep container out of direct sunlight and avoid any damage onto container during transport. Do not transport with food and feedstuffs. Do not load heavy container onto the material. Retention of the yellow card is required at the time of transfer.

15. REGULATORY INFORMATION

Follow all the relevant local, state, and federal laws and regulations in your country.

16. OTHER INFORMATION

- **Reference**

NITE Chemical Risk Information Platform (NITE-CHRIP)
http://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop
SDS supplied by the supplier, etc.

The above information is believed to be correct to be the best of our knowledge and information but do not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and we shall not be held liable for any damage resulting from handling or from contact with the above material.